

CLAIMS

1. An interactive headlight control system, for use on a motorized vehicle comprising front headlights capable of switching between a high and a low position and a headlight circuitry capable of selectively switching the headlights between their high
5 and low positions:

said headlight control system comprising :

- an electronic circuit;
 - at least one light sensor destined to be oriented outwardly of the vehicle, said
light sensor operatively communicating with said electronic circuit, said
10 light sensor sensitive to lumen value from vehicle headlights;
 - at least one electromagnetic receiver capable of receiving external incoming
proximity signals, and of communicating with said electronic circuit;
 - at least one electromagnetic transmitter for transmitting outgoing proximity
signals, said transmitter controlled by said electronic circuit;
- 15 wherein upon said electromagnetic receiver receiving a detectable proximity signal,
said electronic circuit will issue a command controlling the headlight circuitry for
switching and maintaining the headlights in their low position, and wherein upon said
light sensor sensing a light intensity at least equal to a determined threshold value of
light intensity, said electronic circuit will control said electromagnetic transmitter for
20 transmitting a proximity signal.

2. The apparatus of claim 1, wherein said transmitter, said receiver, and said light
sensor form an integrated unit.

3. The apparatus of claim 1, wherein said electronic circuit comprises a central processing unit (CPU).

5 4. A motorized vehicle comprising a front headlight system capable of switching between a high position and a low position and a headlight circuitry capable of selectively switching said headlight system between said high position and said low position, said motorized vehicle also comprising a headlight control system comprising

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- an electronic circuit;
 - at least one light sensor destined to be oriented outwardly of the vehicle, said light sensor capable of communicating with said electronic circuit, said light sensor sensitive to lumen value from vehicle headlights;
 - at least one electromagnetic receiver capable of receiving external incoming
 - 15 proximity signals, and of communicating with said electronic circuit;
 - at least one electromagnetic transmitter for transmitting outgoing proximity signals, said transmitter controlled by said electronic circuit;

wherein upon said electromagnetic receiver receiving a detectable proximity signal, said electronic circuit will issue a command controlling said headlight circuitry and

20 switching and maintaining the headlights in their low position, and wherein upon said light sensor sensing a light intensity at least equal to a minimal threshold value of light intensity, said electronic circuit will control said electromagnetic transmitter for transmitting a proximity signal.

5. The motorized vehicle of claim 4, wherein said emitter, transmitter and sensor of said headlight control system form a first integrated electromagnetic unit.

6. The motorized vehicle of claim 5, further comprising a second electromagnetic unit, and wherein said first electromagnetic unit is located in front of said vehicle, said transmitter, said receiver, said light sensor of said first electromagnetic unit oriented forwardly, and said second electromagnetic unit located at the rear of said vehicle; said second electromagnetic unit comprising three rearwardly oriented elements : a second transmitter, a second receiver and a second light sensor.

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7. The motorized vehicle of claim 4, further comprising a nighttime detector sensitive to lumen value from ambient light, said nighttime detector being operatively connected to said electronic circuit, said electronic circuit de-activating said headlight control system upon the ambient light intensity increasing beyond said minimal threshold of ambient light intensity.

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8. The apparatus of claim 4, wherein said electronic circuit comprises a central processing unit (CPU).

20 9. An interactive headlight control system, for use on a motorized vehicle of the type comprising front headlights capable of switching between a high and a low position and a headlight circuitry capable of selectively switching the headlights between their high and low positions;
said headlight control system comprising :

- an electronic circuit:
- at least one light sensor destined to be oriented outwardly of the vehicle, said light sensor capable of sensing the amount of light directed towards it;
- receiver means for receiving external incoming proximity signals;
- 5 - transmitter means for transmitting outgoing proximity signals, said transmitting means commanded by said electronic circuit;
- communication means connecting said light sensor, said receiver means and said transmitter means to said electronic circuit;

wherein upon said receiver means receiving a detectable proximity signal, said
10 electronic circuit will issue a command controlling the headlight circuitry for switching and maintaining the headlights in their low position, and wherein upon said light sensor sensing a light intensity at least equal to a determined threshold value of light intensity, said electronic circuit will control said transmitter means for transmitting a proximity signal.

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